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## REGISTRATION

To partially offset the cost of the Symposium, there will be a registration fee in the order of € 600 for participants registering by January 31<sup>st</sup>, 2023.

After that date, the registration fee will raise to € 700. The registration fee for students amounts to € 190.

The fee will cover admission to the sessions, the symposium digest, the proceedings published after the symposium, the symposium reception, coffee breaks and lunch.

Registration forms will be placed end of November onto the symposium webpage as part of the Final Announcement: <https://iaaspace.org/SSEO>

### Coordination: Symposium and Program

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### Local Agency

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### Exhibition

Berlin Partner

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## SCIENTIFIC PROGRAM COMMITTEE

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## Call for Papers

# 14<sup>th</sup> IAA Symposium on Small Satellites for Earth System Observation

May 07-12, 2023  
Berlin, Germany



*International Academy of  
Astronautics*

Supported and hosted by



DLR Deutsches Zentrum  
für Luft- und Raumfahrt e.V.



## OBJECTIVES

The great number of scientists, engineers, and managers, who participated in the hitherto existing symposia reflects the high interest in the use of small satellites for dedicated missions applied to observation of the Earth System, from technology demonstration to scientific observation or exploration missions.

These types of missions can be conducted relatively quickly and inexpensively and provide increased opportunity for access to space.

The spacecraft bus and instruments can be based either on optimized off-the-shelf systems, with little or no requirements for new technology, or on new high-technology systems. Thus a new class of advanced small satellites, including autonomously operating satellites or constellations/formations may be created, opening new fields of application for scientific purposes as well as operational, public and commercial services.

The symposium will provide a forum for scientists, engineers, and managers to exchange information about planned and on-going programs and missions, and present new ideas, covering small satellite mission objectives as well as technology and management aspects for dedicated satellites for Earth and Moon observation. Areas of interest include, but are not limited to:

### Small Satellite Mission and University Programs

- International and national programs
- Planned and on-going programs
- Integrated applications

### Objectives for Small Satellite Missions

- Scientific Earth and Moon observation missions
- Systems for disaster and climate monitoring
- Technology demonstration missions
- Commercial services and applications
- Results and lessons learned

### System Aspects

- Sensors and instrumentation
- Spacecraft concepts and sub-systems
- Software and IT safety
- Ground stations and communication
- Mission operation and facilities

### Mission Architectures

- Distributed Space Systems
- Constellation and formation
- Rendezvous and docking
- Launch systems

### Space Situational Awareness

- Space Weather
- Near-Earth objects
- Space surveillance and tracking

### Student Prize Paper Competition<sup>\*)</sup>

The symposium will consist of

- Lectures by invited speakers
- Contributed papers selected from abstracts received in response to the call for papers
- Poster sessions
- Panel discussions

and will include a technical exhibition to showcase hardware and posters.

The official language will be English.

## SCHEDULE

May 30, 2022  
**November 07, 2022**  
December 12, 2022  
December 23, 2022  
February 03, 2023  
May 07, 2023  
May 07-12, 2023  
September 2023

Call for Papers  
**Abstracts Due**  
Notification to authors  
Final Announcement  
Extended abstract due (4 pages)  
Final paper due (max. 8 pages)  
14<sup>th</sup> Symposium  
Proceedings

## CALL FOR PAPERS

You are invited to contribute a paper for presentation at the symposium. A one-page, single-spaced abstract of no less than 300 and no more than 500 words<sup>\*)</sup> must be received by

**November 07<sup>th</sup>, 2022.**

Abstracts should be in English and shall include the symposium topic addressed, the problem explored, the methodology used, results and conclusions so as to allow the Scientific Program Committee to make an informed decision regarding their suitability for inclusion into the symposium.

Notification of your paper's acceptance and author's instructions will be sent by December 12<sup>th</sup> 2022.

The symposium digest comprising the extended abstracts (four pages) will be part of the registration package handed over when registering on-site.

Final papers for the symposium proceedings are limited to eight pages, including tables and illustrations. The symposium proceedings will provide the contributed papers and interactive poster session papers presented during the symposium. They will be available for the participants after the conference.

Outstanding presentations of papers and posters will be awarded.

Send your abstract by e-mail to: [iaa.symp@iaamail.org](mailto:iaa.symp@iaamail.org)

<sup>\*)</sup> **Please note:** Students, who want to submit their abstract for the Students Conference need to prepare an **extended abstract** (4 pages)  
(see Call for Student Papers <https://iaaspace.org/SSEO>)

